



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
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सं. 26] नई दिल्ली, शनिवार, जून 27, 1981 (अषाढ़ 6, 1903)

No. 26] NEW DELHI, SATURDAY, JUNE 27, 1981 (ASADHA 6, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

## [PART III—SECTION 2]

पेटेन्ट कायलिय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 27th June 1981  
APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

21st May, 1981.

536/Cal/81. Mitsui Toatsu Chemicals, Inc. Process for polymerization of  $\alpha$ -olefins.

537/Cal/81. F. Hoffmann-La Roche &amp; Co. Aktiengesellschaft. 2-Nitroimidazoles and preparation thereof.

22nd May, 1981

538/Cal/81. Weber AG Fabrik Elektrotechnischer Artikel Und Apparate. Contact device for a switch.

539/Cal/81. Barr &amp; Stroud Limited. A thermal imager. (May 22, 1980).

540/Cal/81. Barr &amp; Stroud Limited. A waveform generator. (May 22, 1980).

541/Cal/81. Barr &amp; Stroud Limited. A signal processing system. (May 22, 1980).

542/Cal/81. Metallgesellschaft A. G. Continuous process of melting metallic lead directly from lead-and sulfur-containing materials.

543/Cal/81. P. Opprecht. Electrical resistance seam welding machines.

23rd May, 1981

544/Cal/81. I. Mavrovic. Urea synthesis process.

545/Cal/81. M. A. N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Timing device for speed-sensitive variation of relative rotary position of two shafts.

546/Cal/81. Albany International Corporation. Apparatus for the precision cutting of hollow fibres.

25th May 1981

547/Cal/81. Stamicarbon B. V. Process for the preparation of a polymer.

548/Cal/81. Doryokuro Kakunenryo Kaihatsu Jigyodan. Freeze valve having multiple heating-cooling means.

549/Cal/81. Doryokuro Kakunenryo Kaihatsu Jigyodan. Method of ascertaining the state inside melting furnace for radioactive waste.

550/Cal/81. International Standard Electric Corporation. Sub-ribber line circuit. [Divisional date March 21, 1978].

551/Cal/81. Kabel-Und Metallwerke Gutchoffnungshutte Aktiengesellschaft. Multi-core electrical power cable or line, and process for its manufacture.

552/Cal/81. Institut Vysokikh Temperatur Akademii Nauk SSSR. Method of determining temperature of gas and particles in working medium of magneto-hydrodynamic generator.

553/Cal/81. Metallgesellschaft A. G. Continuous process of smelting metallic lead directly from lead-and sulfur-containing materials.

554/Cal/81. The Registrar, Jadavpur University, Dr. S. K. Dutta and S. K. Basu. Process for the preparation of novel erythromycin mandelate.

[Divisional date June 12, 1978]

555/Cal/81. The Registrar, Jadavpur University, Dr. S. K. Dutta and S. K. Basu. Process for the preparation of novel erythromycin mandelate.

[Divisional date June 12, 1978]

26th May, 1981

556/Cal/81. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Apparatus for effecting a thread join in a bound yarn.

557/Cal/81. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Device for sealing off a bore rotor housing subject to vacuum.

558/Cal/81. Pont-A-Mousson S. A. Method and machine for removing burrs from or trimming a socket of a cast-iron pipe.

559/Cal/81. Gould Inc. Lead oxide composition for use in lead-acid batteries.

560/Cal/81. Sanofi. Prostaglandin derivatives and process for preparing the same.

561/Cal/81. Indian Jute Industries' Research Association. A method and device for wet spinning of jute and allied fibres.

27th May, 1981

562/Cal/81. Macart Textiles (Machinery) Limited. Rapier looms and rapier heads therefor.

563/Cal/81. BASF Aktiengesellschaft. Stringently sodium-restricted dietetic salt and its preparation.

564/Cal/81. Eeyt Gyogyszervegycsseti Gyar. Methyl-quinoxaline-1-, 4-dioxide derivatives.

565/Cal/81. The B. F. Goodrich Company. Stabilization of post-chlorinated vinyl chloride polymers by phosphate salts.

566/Cal/81. Kirloskar Electric Company Limited. An improved method of welding studs, pins or the like for fastening and an improved stud for such welding.

THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH NEW DELHI-110005

3rd April 1981

191/Del/81. Bele Invent Aktiebolag. "Apparatus for recharging of batteries by means of pulsating current."

6th April, 1981

192/Del/81. L'Air Liquide, Societe Anonyme Pour L' Etude Et L' Exploitation Des Procedes Georges Claude. "Improvements in or relating to processes of and apparatus for the production of ammonia synthesis gas".

193/Del/81. Colgate-Palmolive Company. "Dental Cream". (April 25, 1980).

7th April, 1981

194/Del/81. Poclein Hydraulics. "Pressurized fluid engine equipped with means for selecting its speed of rotation".

195/Del/81. Thomson-Brandt. "Clothes-Washing Machine Comprising Improved Product Boxes".

8th April, 1981

196/Del/81. West Point-Pepperell, Inc. "Apparatus for applying liquid chemicals to a moving Web".

197/Del/81. Union Carbide Corporation. "Apparatus for refining molten aluminium".

198/Del/81. Federal-Mogul Corporation. "A sleeve bearing".

199/Del/81. Council of Scientific & Industrial Research. "Improved process for plating on aluminium substrates".

200/Del/81. Council of Scientific & Industrial Research. "Improvements in or relating to selective black chrome plating for solar collectors".

9th April, 1981

201/Del/81. Shri Jai Kishan Goel. "Scotch tape saver".

202/Del/81. Unilroyal Ltd., "Method of making 2, 3 dihydro-5, 6-diphenyl-1, 4-oxathiol". (May 2, 1980).

203/Del/81. Messrs. Unisystems Private Limited. "A Pouch".

204/Del/81. R & M Company. "A Process for the manufacture of Glass Tiles".

205/Del/81. R & M Company. "A Process for the manufacture of Glass Tiles".

206/Del/81. Bhushan Lal Mittal. "A Crystallizer".

207/Del/81. Bhushan Lal Mittal. "A Device for Heating of Masscuite".

10th April, 1981

208/Del/81. Smithkline Corporation. "Antiallergic Imidodisulfamides".

209/Del/81. Jose Luis Ramo Mesple. "Inverse Osmosis Hydrostatic System Desalting Plant".

210/Del/81. Ruhrkohle Aktiengesellschaft. "Method of Extracting Mineral Columns in Underground Mining".

211/Del/81. Ruhrkohle Aktiengesellschaft. "Installation for Dewatering Coal".

212/Del/81. Microfuels, INC. "Improved particulate coal-in-liquid mixture and process for the production thereof".

213/Del/81. Sperry Limited. "Magneto-Optical Phase-Modulating Devices". (April 29, 1980).

214/Del/81. Sperry Limited. "Ring Laser Gyroscopes". (May 9, 1980).

215/Del/81. Rohm GmbH. "Polymer products in the form of solutions or aqueous dispersions for treating pelts and leather".

216/Del/81. Pankaj Jain. "Device".

13th April, 1981

217/Del/81. Rajesh Tyagi. "A Solar Still".

218/Del/81. Thomson-Brandt. "Combined Frequency Demodulator and Synthesizer for A Frequency-Modulated Wave Receiver".

219/Del/81. Monseal Limited. "A Compression Refrigerator Unit Adjustable in Accordance with the Liquid Flowing out from the Evaporator".

220/Del/81. Societe D'Etudes De Machines Thermiques S.E.M.T. "Improvements in or Relating to Piston for A Reciprocating Piston Machine, Particularly an Internal Combustion Engine".

14th April, 1981

221/Del/81. D. K. Jain, "An improved auto silk screen printing machine for printing on cylindrical articles".

222/Del/81. Council of Scientific and Industrial Research, "Improvements in or relating to the chemical stripping solution for nickel-iron alloy deposits from brass, copper and steel substrates".

223/Del/81. Council of Scientific and Industrial Research, "A closed circuit hydraulic prop for the support of mine roofs with an improved relief valve mechanism".

224/Del/81. S.E.A.B. s.a., "Resilient Container for Packaging of Products".

225/Del/81. BOA A.G. Luzern, "An Improved Pressure Control Apparatus for At least Two Pressure Vessels".

15th April, 1981

226/Del/81. Colgate-Palmolive Company, "Dental Restorative Composition".

227/Del/81. Colgate-Palmolive Company, "Dental Composition".

16th April, 1981

228/Del/81. Toyo Engineering Corporation, "Jet Layer Granulator".

229/Del/81. Dr. Vidyardhi Nanduri, "A Contractor".

230/Del/81. Mrs. Sudha Sen, "A Theft Prevention and/or Burglar Alarm Device".

231/Del/81. Dr. Vidyardhi Nanduri, "An Improved Electrical Fuse".

[Addition to 111/Del/81].

232/Del/81. Council of Scientific and Industrial Research, "A Process for Preparation of Tetra-N-Butylammonium Iodide".

18th April, 1981

233/Del/81. Gestetner Manufacturing Limited, "Developer Unit for Dry Toner Electrophotographic Copier". (May 2, 1980).

234/Del/81. Westinghouse Brake and Signal Company Limited, "Fluid Pressure Control Valves". (May 16, 1980).

20th April, 1981

235/Del/81. Hari Dutta Gupta, "Domestic Solar Cooker".

**APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH  
61, WALLAJAH ROAD, MADRAS-600002**

11th May, 1981

97/Mas/81. S. Anbumani. A device for preventing knotted or snarled yarn from entering a knitting machine.

98/Mas/81. Widia (India) Ltd. A welding electrode.

16th May, 1981

99/Mas/81. Dr. B. T. Nijaguna. "Vayu Dhutha" Winnower.

22nd May, 1981

100/Mas/81. Lucas-TVS Ltd. A method of manufacture of coloured PVA enamelled wire and coloured enamelled wire manufactured by the said method.

101/Mas/81. Lucas-TVS Ltd. A method of manufacture of coloured PVA enamelled wire and coloured enamelled wire manufactured by the said method.

102/Mas/81. K. Narasimhachary. Additional improvements in cycle system.

**ALTERATION OF DATE**

148833  
11/Del/80.  
Ante-dated 30th April 1977.

**COMPLETE SPECIFICATION ACCEPTED**

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification".

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

**CLASS : 119-C, D** 148823

**Int Cls. : D03C-5/04, D03d/00- 27/10.**

**"METHOD AND A LOOM FOR THE PRODUCTION OF A DOUBLE PILE FABRIC WITH SINGLE WAFT INSERTION".**

*Applicants : LINDAUER DORNIER G.m.b.H.*

*Inventors : DELAPLACE PHILIPPS, BERNARD PIERRE.*

*Application No. 674/DEL/78 dt. 14-9-78.*

*Convention Date : August 14th, 1978. (33272/78) U.K.*

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110 005.

**12 claims**

A method for the production of a double pile fabric with single weft insertion in which the weft thread for the face cloth and the weft thread for the back cloth are introduced into the shed at the same point. Wherein by means described herein an additional lifting movement is superimposed on the normal shed-forming motion transmitted to the heald shafts, at least in the case of the heald shafts of the grounds warp for one of the two fabrics.

*Comp. specn.—21 pages.*

*Drg.—7 sheets.*

**CLASS : 157D** 148824

**Int. Cls. : G010C-3/08.**

**"A RAILWAY TRACK SURVEYING APPRATUS".**

*Applicants : CANRON CORPORATION U.S.A.*

*Inventors : HANS HURNI.*

*Application No. 675/DEL/78 Filed on 15th September, 1978.*

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110 005.

## 19 claims

A railway track surveying apparatus comprising; a light frequency beam transmitter mounted for movements along a track, for transmitting a beam along the track; receiver means mounted for movement along the track at a position spaced from the transmitter for receiving at least a portion of the beam; and beam interference means mounted for movement along the track at a position between the transmitter and the receiver, and characterized by means for determining the cross levels of the track at the transmitter and the receiver; and control means for controlling operations of the apparatus, including means for selecting one or the other of the track rails or the track centerline as a datum line for the determination of the levelling of the rails and means for adjusting the height of at least one of the transmitter, the receiver and the beam interference means in dependence on the cross levels of the track at the transmitter and the receiver to compensate for the selection.

Comp. specn.—17 pages.

Drg.—3 sheets.

CLASS : 116-E., 102-D. 148825

Int. Cls. : B66f-19/00, 3/24. F 15b-15/00.

## "CHARGE GUN FOR AN HYDRAULIC PROP OR JACK".

*Applicants* : DOBSON PARK INDUSTRIES LIMITED.  
*Inventors* : RAYMOND WINSTON HILTON.

Application No. 683/DEL/78 filed September, 20. 1978.  
 Convention Date May 24, 1978 (22131/78) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110 005.

## 11 Claims

A charging gun for an hydraulic prop or jack, said gun comprising an inlet for attachment to an external supply of pressure fluid, a self sealing valve coupling connection means provided on said valve coupling and adapted to cooperate with a fluid receiving adaptor to provide fluid flow connection between said valve coupling being operable only when said connection means are in cooperating relationship with fluid receiving adaptor, a manually actuatable fluid flow control valve between said inlet and said valve coupling to receive fluid from said inlet and to control the passage of fluid to said valve coupling and a bleed valve means between said control valve and said valve coupling, said bleed means being adapted to relieve pressure existing within the gun when said control valve is in its closed position.

Comp. specn.—10 pages.

Drg.—4 sheets.

CLASS : 47A. 148826

Int. Cls. : C10b-57/00

## "PROCESS FOR PREPARING LIQUID HYDROCARBONS".

*Applicants* : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. OF CAREL VAN BYLANDT-LAAN 30, THE HAGUE, THE NETHERLANDS A COMPANY ORGANISED UNDER THE LAWS OF THE NETHERLANDS, A RESEARCH COMPANY.

*Inventors* : SCHAPER LAMBERT & SIE SWAN TIONG.

Application No. 689/DEL/78, filed on 21st September, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110 005.

## 9 Claims

1. A process for preparing liquid hydrocarbons from coal characterized in that :

- (a) the Coal is converted into a mixture of carbons monoxide and hydrogen by gasification,
- (b) the mixture of carbon monoxide and hydrogen is converted to an aromatic hydrocarbon mixture using a catalyst containing a crystalline silicate which
  - (1) is thermally stable to temperatures above 600°C,
  - (2) after dehydration at 400°C in vacuum, is capable of adsorbing more than 3% water at 25°C and saturated water vapour pressure, and
  - (3) in dehydrated form, has the following overall composition, expressed in moles of the oxides. (1.0—0.3) (R)/2/n O.—a Fe<sub>2</sub>O. b Al<sub>2</sub>O<sub>3</sub> c a<sub>2</sub>y(d SiO<sub>2</sub>+e Ge O<sub>2</sub>), where  
 R=One or more mono—or bivalent cations  
 a)/0.1,  
 b)/0,  
 c)/0,  
 a+b+c=1,  
 y)/10,  
 d)/0.1,  
 e)/0.  
 d+c=1, and  
 n=the valency of R

- (c) from the aromatic hydrocarbon mixture an isobutane-containing gaseous fraction and an aromatic liquid fraction boiling in the gasoline range are separated,
- (d) the isobutane-containing gaseous fraction is converted by alkylation by a known method into a product from which a fraction boiling in the gasoline range is separated, and
- (e) the two fractions boiling in the gasoline range obtained according to (c) and (d) are mixed.

Comp. specn.—22 pages.

2 sheets.

CLASS : 24D.1

148827

Int. Cl. : F 16d-65/26.

## "BRAKE FLUID RESERVOIR".

*Applicants* : AUTOMOTIVE PRODUCTS LIMITED, A BRITISH COMPANY OF TECH BROOK ROAD, LEAMINGTON SPA, MERWICKSHIRE CV 31 3 ER, ENGLAND.

*Inventors* : HENRY BELLAMY HENDERSON.

Application No. 694/DEL/78, filed on 22nd September, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

## 6 Claims

A fluid reservoir for a hydraulic dual circuit vehicle braking system and comprising :

a reservoir body having a longitudinal axis such that when the reservoir is mounted on a vehicle, said axis is substantially parallel with the longitudinal axis of the vehicle,

a partition wall transverse to said longitudinal axis, and dividing the reservoir body into two reservoir chambers chargeable with hydraulic fluid,

and a tube extending longitudinally of said body and interconnecting said two chambers for fluid flow therebetween, characterised in that said tube has ends which open one into each respective chamber as apertures located at a minimum required fluid level within the respective chamber, the location of each aperture in its respective chamber is substantially midway along the longitudinal length of each chamber and is orientated to lie in a substantially vertical longitudinal plane in the vehicle mounted position of the reservoir.

Comp. specn.—11 pages.

Drg.—1 sheet.

CLASS : 32F1., 32F 2(b).

148828

Int. Cls. : C07 d 87/00.

"A PROCESS FOR PREPARING 4-AMINO-2-(PIPERAZIN-1-YL OR HOMOPIPERAZIN-1-YL) QUINAZOLINE".

*Applicants* : PFIZER CORPORATION.*Inventors* : SIMON FRASER CAMPBELL.

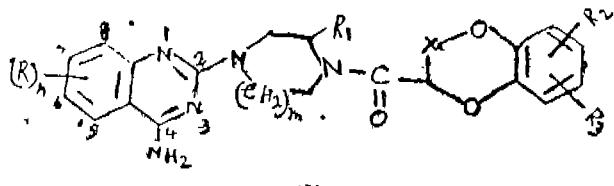
Application No. 712/DEL/78, filed October 3, 1978.

Convention date : November 5, 1977. (46128/77) U.K.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patents Office Branch, Municipal Market, 3rd Floor, Saraswati Marg, Karol Bagh, New Delhi-110005.

4 Claims

A process for preparing a compound of the formula I



wherein  $(R)_n$  represents 6, 7-di(lower alkoxy) or 6, 7, 8-tri(lower alkoxy);

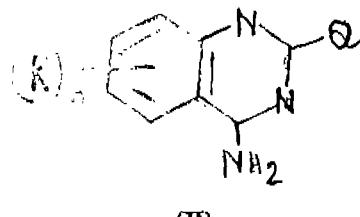
M is 1 or 2;

x represents— $\text{CHR}'-$  or  $-\text{CH}_2\text{CH}_2-$ ;

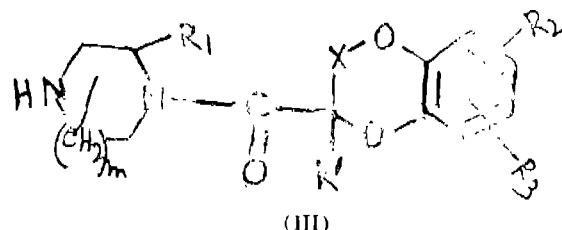
each  $R'$ , which may be the same or different, represents hydrogen or lower alkyl;

and  $R^1$  and  $R^2$ , which may be the same or different, each represent hydrogen, lower alkoxy, halogen, lower alkanoyl, lower alkoxy carbonyl or a group of the formula— $\text{CONRR}'$  or  $-\text{SO}_2\text{NR}'\text{R}''$  wherein  $R'$  and  $R''$ , which may be the same or different each represent hydrogen or lower alkyl;

and the pharmaceutically acceptable acid addition salts thereof, which comprises reacting a quinazoline of the formula II



wherein  $(R)_n$  is as defined above and Q represents a facile leaving group such as chloro, bromo, iodo, lower alkoxy or lower alkylthio, with a piperazine or homopiperazine of the formula III



wherein X,  $R^1$ ,  $R^2$ ,  $R''$  and m are as defined above.

followed by, optionally, conversion of the product of the formula (I) into a pharmaceutically acceptable acid addition salt by reaction with a non-toxic acid such as herein described.

Comp. specn.—41 pages.

Drg.—7 sheets.

CLASS : 32F 3(a)

148829

Int. Cl. : C07c 47/00.

"PROCESS FOR THE PURIFICATION OF IMPURE BENZALDEHYDE".

*Applicants* : STAMICARBON B. V., A NETHERLAND COMPANY OF GEJEFN, THE NETHERLAND.*Inventors* : JAN FLEMINDORP.

Application No. 764/DEL 1978, filed on 16th October, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

15 Claims

Process for the purification of impure benzaldehyde, characterised in that impure benzaldehyde is treated with an oxidizing agent such as herein described and distilled.

Comp. specn.—7 pages.

CLASS : 155.E., 172-B.

148830

Int. Cls. : D02g-3/00

"AN INTERMINGLER".

*Applicants* : MODIPON LIMITED.*Inventors* : VIDURASHWATHA, KOLAR LAKSHMAN IYER.

Application No. 797/Del/78, filed on November 6th, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

4 Claims

A fluid intermingler for the manufacture of multifilament yarns comprising a jet or nozzle holder having an axial passage for the traverse of the yarn, a jet or nozzle having an outlet end leading into said axial passage and disposed perpendicular thereto, means guiding said filaments into said axial passage characterised in that said jet or nozzle holder is directly and rotatably secured to a fluid supply body, said fluid supply body having a stem in which an axial passage is provided and the said axial passage being adapted to be connected to inlet end of said axial passage of the jet or nozzle holder to be in a working position or in a flow communication therein, locking means being provided with said fluid supply body for locking said nozzle holder in a locked position and a limiting means being provided on the jet or nozzle holder for limiting the rotatable movement of said nozzle holder, the wall surface in said axial passage of the fluid supply body opposite to said nozzle being closed.

Comp. specn.—10 pages.

Drg.—One sheet.

CLASS : 155-E, 172-B

148831

Int. Cl. : D02g-3/00.

"AN INTERMINGLER".

*Applicants* : MODIPON LIMITED, OF MODI NAGAR-201204, (U.P.) INDIA.*Inventors* : KOLAR LAKSHMAN IYER VIDURASH-WATHA.

Application No. 798/Del/78, filed on 6th November, 1978.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

## 8 Claims

A fluid intermingler for the manufacture of multifilament yarns comprising a rotatable jet or nozzle holder having an axial passage for the traverse of the filaments, said jet or nozzle holder being adapted to support a jet or nozzle receiving a supply or fluid under pressure, said axial passage forming a chamber characterized in that the wall surface of said chamber opposite to the outlet of the nozzle is closed, a yarn positioning and advancing means being provided for guiding the traverse of said filaments into said axial passage, said in a spaced relationship thereto, an opening provided in the said arm being coincident with said passage, said arm being removably secured to said intermingler.

Comp. specn.—11 pages.

Drg.—1 sheet.

CLASS : 180., 195C.

148832.

CLASS : 180., 195C.

Int. Cl. : F24c-5/18, F16k-5/00, 5/12.

"IMPROVEMENTS IN OR RELATING TO PRESSURE CONTROL VALVES FOR USE IN KEROSENE STOVES BURNERS OF LIKE".

*Applicants* : GURDEV SING, 61, IDGAH COLONY AGRA (U.P.) INDIA.*Inventors* : GURDEV SING.

Application No. 842/Del/78, filed on November, 24th, 1979.

[Addition to 21/Del/76 (Serial No. 143861)].

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Delhi Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

## 4 Claims

1. A one way valve for regulating and/or controlling the pressure and quantity of oil for use in Kerosene oil stoves and burners or the like comprising or a metallic block having a channel therein, a female screw machined in the metallic block, a corresponding male screw adoptable to be fitted in female screw, the said channel comprising of clearance between the female screw and the corresponding adoptable male screw, an oil seal with a check nut provided at one end of the said channel through which the male screw operates with the help of a knob fixed at its one end, an inlet hole in the said block connected to the inlet end of said channel and an outlet hole in said block at the other end of said channel characterised in that the oil enters the valve through its inlet hole and after being made to pass from one end to the channel to the other and leaves the valve through its outlet hole and the whole arrangement is such that by screwing or unscrewing the said knob, the operating length or the thickness of the channel is varied to regulate the quantity and the pressure of the oil within the valve.

Comp. specn.—4 pages.

Drg.—One sheet.

CLASS : 56C.

148833

Int. Cl. : B01d 9/00.

CARTRIDGE AND FURNACE FOR CRYSTAL GROWTH.

*Applicant* : MOBIL TYCO SOLAR ENERGY CORPORATION, AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS USA.*Inventors* : BRIAN HOLMES MACKINTOSH AND DAVID NORLIN JEWETT.Application No. 11/Del/80, filed January 7, 1980.  
Division of Application No. 651/Cal/77, filed April 30, 1977.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Delhi Branch.

## 9 Claims

A cartridge for use in an apparatus for growing a crystal from a melt said cartridge comprising : a capillary die; means for holding said die; solid vertically elongate heat-conductive means located above said die for controlling the temperature gradient lengthwise of a crystal grown and pulled from a growth pool of melt at the upper end of said die; a heat-conductive header; and means connecting said die holder and heat-conductive means to said header so that said heat-conductive means depends from said header.

Comp. Specn.—24 Pages.

Drg.—6 Sheets.

CLASS : 18 &amp; 84C1.

148834

Int. Cl. : C101 9/00, 5/00.

WATER-IN-OIL EMULSION CONTAINING FINELY-DIVIDED COAL.

*Applicant* : CONVAIR INVESTMENTS LIMITED, OF SASSOON HOUSE, NASSAU, THE BAHAMAS.*Inventor* : ERIC CHARLES COTTELL.

Application No. 2070/Cal/75, filed October 28, 1975.

Convention date October 23, 1975/(43478/75) U.K.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

## 28 Claims

A process for the production of a water-in-oil emulsion containing finely-divided coal, which process comprises mixing finely divided coal having an average particle size of less than 100/ $\mu$  with water so as to form a slurry, adding a water immiscible oil to the slurry and agitating the resultant mixture with vibrations having an intensity of at least 11.625 watts  $\text{cm}^{-2}$ , thereby producing a combustible water-in-oil emulsion containing finely-divided coal.

Comp. Specn.—23 Pages.

Drg.—2 Sheets.

CLASS : 58A<sup>2</sup>.

148835

Int. Cl. : E06b 9/00.

WINDOW SHADE ASSEMBLY.

*Applicant* : CLOPAY CORPORATION, OF CLOPAY SQUARE CINCINNATI, OHIO 45214, U.S.A.*Inventors* : ROBERT CLARENCE GOSSLING AND GERALD WILLIAM MILLER.

Application No. 614/Cal/77, filed April 23, 1977.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

## 22 Claims

A window shade assembly comprising, in combination, a roller and a shade secured to and extending between the ends of the roller, the shade having at least at one edge thereof a plurality of spaced hand-strip lines extending from end-to-end substantially parallel to the edge so that discrete widths of the shade material may be removed along the strip lines, the roller including at least at one of its ends a plurality of longitudinally spaced circumferentially extending strip lines substantially coincident with the hand-strip lines of the shade and adapted to permit removal of discrete widths of the roller.

Comp. Specn.—26 Pages.

Drg.—3 Sheets.

CLASS : 175H.

148836

Int. Cl. : F02b 55/02, F02f 3/00.

**IMPROVEMENTS IN OR RELATING TO LIGHT METAL PISTONS.**

*Applicant* : MAHLE GMBH, OF 26-46, PRAGSTRASSE, STUTTGART, GERMANY (WEST).

*Inventors* : HANS JURGEN KOHNERT AND HERBERT SMETAN.

Application No. 829/Cal/77, filed June 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings

A light metal piston for an internal combustion engine having an annular groove reinforcement characterized in that said reinforcement is made of an austenitic cast iron alloy consisting of :—

0.1 to 8.0% Ni  
1.5 to 4.0% C  
0.5 to 4.0% Si  
4 to 14.0% Mn  
0.3 to 7.0% Cu  
0.3 to 8.0% Al

0.1 to 0.5% Ti and Chromium not exceeding 2.0%, the rest consisting of Fe with the impurities caused by the manufacturing process.

Comp. Specn.—17 Pages.

Drgs.—Nil.

CLASS : 151E & 166B.

148837

Int. Cl. E02b 3/04, F161 57/00.

**A SYSTEM FOR DEPOSITING SEDIMENT AND/OR PROTECTING AN INSTALLATION ON THE FLOOR OF A BODY OF WATER.**

*Applicant & Inventor* : OLE FJORD LARSEN OF FASANVAENGET 62, HJERTING, 6700 ESBJERG, DENMARK.

Application No. 959/Cal/77, filed June 27, 1977.

Convention date June 28, 1976/(26748/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A system for depositing sediment and/or protecting an installation on the floor of a body of water, comprising an elongated plate-like structure located on said floor, said plate-like structure including a longitudinally extending center portion spaced above the floor and two longitudinally extending side portions, the upper surface of which diverge away

from each other toward said floor at an angle relative thereto of between generally 10-30 degrees, said plate-like structure having such large dimensions and being fabricated from material of such high specific gravity that no anchoring of said structure is necessary, and said plate-like structure being designed in such way that damage due to dragging ships' anchors and fishing gear is prevented.

Comp. Specn.—16 Pages.

Drg.—2 Sheets

CLASS : 40F.

148838

Int. Cl. : B011 11/00.

**PROCESSING INSTALLATION FOR CONTROLLING TEMPERATURE.**

*Applicant* : ULTRA CENTRIFUGE NEDERLAND N.V., OF SCHEVENINGSEWEG 44, THE HAGUE, THE NETHERLANDS.

*Inventor* : FREDERIK HERMAN THEYSE.

Application No. 970/Cal/77, filed June 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Processing installation for controlling temperature consisting of a number of process vessels which are arranged side by side on and rigidly fixed to a rigid foundation floor, characterized in that temperature controlling pipelines are provided in the foundation floor, around at least a part of the outer surface of each process vessel, and above said process vessels in order to maintain a constant temperature, temperature controlling means being provided with said pipeline network for controlling the temperature of the medium conveyed through said pipelines, said means being dependent on the temperature of the floor and the gas around the vessels.

Comp. Specn.—8 Pages.

Drg.—3 Sheets

CLASS : 33C.

148839

Int. Cl. : B22d 37/00.

**A REFRACRY PLATE FOR A SLIDING GATE NOZZLE APPARATUS, A PROCESS FOR MAKING THE SAME AND A SLIDING GATE NOZZLE APPARATUS INCORPORATING SAID REFRACRY PLATE.**

*Applicant* : DIDIER-WERKE AG., OF LESSINGSSTRASSE 16-18, 6200 WIESBADEN, WEST GERMANY.

*Inventors* : DR. HANS REINHARD FEHLING AND HORST HASE.

Application No. 1056/Cal/77, filed July 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A refractory plate for a sliding gate nozzle apparatus for the outlet of vessels containing molten metal incorporating at least one through bore extending through the plate from the sliding face to the opposite face and consisting of a refractory material surrounded by a metal mantle, the refractory material being a refractory concrete poured into and set in the metal mantle constructed as a dead mould substantially the whole of the surface of the plate apart from the sliding face of the plate being sheathed.

Comp. Specn.—12 Pages.

Drg.—1 Sheet

CLASS : 107H.

148840

10 Claims

Int. Cl. : F02n 37/00.

## IMPROVEMENTS TO FUEL INJECTION PUMPS FOR INTERNAL COMBUSTION ENGINES.

*Applicant* : CAV ROTODIESEL, OF 9, BOULEVARD DE L'INDUSTRIE, BLOIS (LOIR-ET-CHER), FRANCE.*Inventor* : JEAN-CLAUDE BONIN.

Application No. 1155/Cal/77, filed July 27, 1977.

Addition to No. 2198/72(138110).

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A fuel injection pump according to claim 1 of the main Patent No. 138110 of the type comprising a rotor formed with a cylinder forming diametral bore, two plungers slideable in the bore, opposed to each other and caused to move inwardly by a fixed cam profile, and a distribution head with an axial passage connecting the space between the two plungers on the one hand to fuel inlets and on the other hand to a delivery passage the outlet of which is brought in succession, during rotation of the rotor, in register with delivery outlets provided in the pump body and communicating with respective injection nozzles of the engine, said cam profile effecting inward movement of the plungers via rollers carried by roller shoes radially slideable in a housing arranged inside said body, a radial abutment member for limiting the outward movement of said plungers due to the fuel pressure admitted between the plungers through said inlets, said roller shoes being mounted for parallel motion to the rotor axis relative to said radial abutment member, at least two different relative axial positions corresponding to different abutment distances relative to the pump axis, in which each roller shoe comprises a side portion for engagement with a radially adjustable abutment member, secured to said rotor, the roller shoes and said abutment members having complementary contact surfaces with a continuous and/or discontinuous profile in the axial direction, and the roller shoes are carried by a carriage axially slideable on the rotor, said carriage being subject to the action of resilient biasing means and to the action in reverse direction of hydraulic driving means supplied by a pressure depending on one or more of the operating engine parameters, wherein there is provided a valve comprising a first cylinder, a piston slidably mounted in the cylinder and defining a chamber, a pressure source connected to said chamber via a jet, a discharge port the effective area of which is adjustable by the position of the piston, a conduit connecting said chamber to said hydraulic driving means, a resilient member acting on the piston and means responsive to the air pressure introduced into the associated engine, opposing the action of said resilient member.

Comp. Specn.—12 Pages.

Dtg.—2 Sheets.

CLASS : 48C.

148841.

Int. Cl. : H01g 1/06.

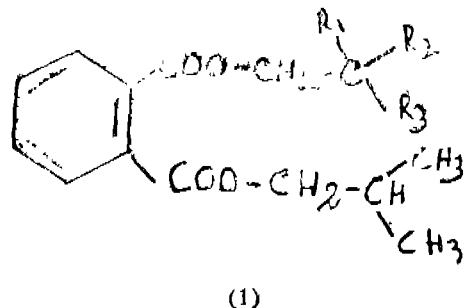
## A LIQUID DIELECTRIC COMPOSITION AND AN ELECTRIC APPARATUS INCORPORATING THE SAME.

*Applicant* : RHONE-POULENC INDUSTRIES, OF 22, AVENUE MONTAIGNE, 75 PARIS 8EME, FRANCE.*Inventors* : PIERRE JAY AND GHISLAIN SCHWACH-HOFER.

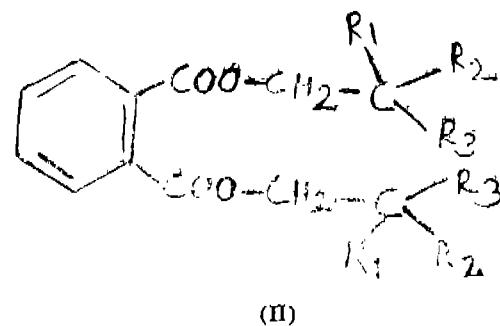
Application No. 1170/Cal/77, filed July 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A liquid dielectric composition comprising a mixture of a mixed phthalate (MP) of the general formula (I).



with at least one of the dialkyl phthalates: di-isobutyl phthalate (DIBP) and a di (higher branched alkyl) phthalate (DHBP) of the general formula (II).



wherein, in formulae (I) and (II), each R<sub>1</sub> which may be the same or different, is methyl or ethyl, each R<sub>2</sub>, which may be the same or different, is a linear or branched alkyl group containing 2 to 12 carbon atoms and each R<sub>3</sub>, which may be the same or different, is hydrogen or a methyl or ethyl group, the composition of the mixture corresponding to a point within the geometrical figure ABCDEFA in the ternary diagram of Figure 1, of the accompanying drawing, wherein points A, B, C, D, E and F have the values defined herein.

Comp. Specn.—18 Pages.

Drg.—4 Sheets.

CLASS : 90 D &amp; E &amp; I.

148842.

Int. Cl. : C03b 37/00, D01d 11/00.

## AN APPARATUS FOR MANUFACTURING A GLASS CHOPPED STRAND MAT HAVING UNIFORM THICKNESS.

*Applicant* : NITTO BOSEKI CO., LTD., OF NO. 1, AZA HIGASHI, GONOME, FUKUSHIMA-SHI, FUKUSHIMA, JAPAN.*Inventors* : KOJI NAKAZAWA, TOSHIAKI KIKUCHI AND TOSHIHITO FUJITA.

Application No. 1324/Cal/77, filed August 24, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An apparatus for manufacturing a glass chopped strand mat having uniform thickness, comprising, a frame structure, a conveyer means disposed below said frame structure, a cutter roller having a plurality of cutting edges embedded on a peripheral surface thereof, a first means mounted on said frame for rotatably supporting said cutter roller, a driving means for rotating said cutter roller, a feed roller for feeding a strand to a cutting position, a second means having one end pivotably secured to said frame, a third means mounted on said second means for supporting said feed roller

in parallel and in contact with said cutter roller, a guide means disposed in a stationary position relative to said feed roller for guiding the strand over said feed roller into between said roller and said cutter roller, while reciprocating to move the strand axially of said feed roller, a detecting means for detecting a deviation of dropping direction of chopped strands from a predetermined direction to provide a control signal indicative of a direction of the deviation, and a fourth means responsive to said control signal for pivoting said second means to change a relative position of said feed roller to said cutter roller and said frame so that the predetermined dropping direction is recovered.

Comp. Specn.—17 Pages.

Drg.—5 Sheets.

CLASS : 64A &amp; 206E.

148843.

Int. Cl. : H03k 17/00.

**A CIRCUIT FOR SWITCHING OFF AT LEAST ONE TRANSISTOR INITIALLY MAINTAINED IN THE SATURATED STATE.**

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNCHEN, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : ANTONIO BRAJDER.

Application No. 1401/Cal/77, filed September 13, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A circuit for driving at least one transistor which is operated in saturation comprising: a first means for coupling to its output one of a control voltage, a cut-off voltage and a further voltage, said output being connected to the base of said transistor and said control, cut-off and further voltages being such that said transistor is cut-off during the presence of said cut-off voltage at said output, said transistor conducting current during the presence of said control voltage at said output and the current to said base of said transistor being substantially zero during the presence of said further voltage at said output; and second means for controlling said first means to provide at said output preceding the presence at said output of said cut-off voltage said further voltage for a predetermined desaturation time interval which depends upon the storage time of said transistor.

Comp. Specn.—20 Pages.

Drg.—1 Sheet.

CLASS : 144A & 155F<sub>2</sub>.

148844.

Int. Cl. : E05c 5/00, G03c 1/74, G03f 7/16.

**METHOD OF AND APPARATUS FOR COATING A THINWALLED PERFORATED WITH A PHOTO-SENSITIVE LIQUID LAYER.**

*Applicant* : STORK BRABANT B.V., OF 43A, WIM DE KORVERSTRAAT, BOXMEER, THE NETHERLANDS.

*Inventors* : HERMANUS, JOSEPHUS, EDUARDUS, JOHANNES, MARIA HOELLEN.

Application No. 1418/Cal/77, filed September 20, 1977.

Convention date July 20, 1977/(30488/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**5 Claims**

A method of coating a thin-walled perforated cylinder with a photosensitive liquid layer and of subsequently drying this layer by heating, whereby the cylinder is secured in a vertical position between two mounting heads, whereupon an annular receptacle for the coating fluid is moved along the outer circumference of the cylinder, whereafter the applied

2—127GI/81

layer is dried by heating, characterized in that each extremity of the cylinder is secured by means of a detachable accessory part to the mounting head concerned, and in that during coating of the cylinder at least the accessory part situated at the end of the coating path is heated and after completion of the coating stroke and after elimination of the coated cylinder, said accessory part is conveyed to the location of the other mounting head, before a fresh cylinder is mounted.

Comp. Specn.—12 Pages.

Drg.—2 Sheets.

CLASS : 206E.

148845.

Int. Cl. : H03k 17/56.

**SEMICONDUCTOR SWITCHING DEVICES.**

*Applicant* : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

*Inventors* : MAURICE HENRY HANES AND EARL STAUFFER SCHLEGEL.

Application No. 1434/Cal/77, filed September 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

A semiconductor switching device having a conducting state and a non-conducting state, the device having a plurality of semiconductor regions of alternating conductivity types; and a structure for initiating switching of a forward voltage across said device by initiating a change of state of the device from said non-conducting to said conducting state, said structure for initiating switching being disposed in one of said regions and being adapted for the initiation of the switching from said non-conducting to said conducting state by providing a current for the initiation of switching of the device during an externally initiated collapse of the forward voltage across said device.

Comp. Specn.—15 Pages.

Drg.—5 Sheets.

CLASS : 65A<sub>1</sub>.

148846.

Int. Cl. : H02k 47/00.

**MULTIPHASE FULL-WAVE RECTIFIER ASSEMBLY.**

*Applicant* : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM B19 2MF, ENGLAND.

*Inventors* : MAURICE JAMES ALLPORT, ALAN RAYMOND MOORE AND ROBERT HEMMINGS.

Application No. 1527/Cal/77, filed October 18, 1977.

Convention date October 22, 1976/(44041/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**13 Claims**

A multiphase full-wave rectifier assembly, comprising a first plate, second plate substantially parallel to the first plate, first and second sets of diodes carried by the first and second plates respectively, terminals of the first set of diodes extending through holes in the second plate, a connector electrically connecting said terminal of each diode of the first set with a terminal of a respective diode of the second set, a further set of diodes, and a common electrical connector which is heat conducting and which has recesses therein, wherein each diode of the further set comprises a body which is held in contact with electrically conducting walls of a respective one of the recesses in the common electrical connector, each said body having a pair of terminals extending

from opposite ends thereof, with one of said pair of terminals being electrically connected with the common electrical connector and the other said pair of terminals being electrically connected with one of said connectors which electrically connect the terminal of one of the diodes of the first set with a terminal of a respective diode of the second set.

Comp. Specn.—16 Pages.

Drg.—2 Sheets.

CLASS : 37B.

148847.

Int. Cl. : B03b 13/00.

#### HYDROCYCLONE MEANS.

*Applicant* : ENSO-GUTZEIT OSAKEYHTIO. OF PL 309, 00101 HELSINKI 10, FINLAND.

*Inventors* : JORMA SURAKKA AND MATTI LANKINEN.

Application No. 1547/Cal/77, filed October 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

Hydrocyclone means composed of two identical hydrocyclones the ends of whose accept tubes are directed against each other so that the longitudinal axes of the hydrocyclones are aligned and having a joint feed chamber and a joint accept chamber, in which the combined accept from the hydrocyclones accumulates, characterized in that the accept ends of the hydrocyclones' accept tubes have been connected with each other and that the accepts have been conducted into connecting ducts, where the accepts are combined and which communicate with the accept chamber.

Comp. Specn.—10 Pages.

Drg.—2 Sheets.

CLASS : 173B & 195G.

148848.

Int. Cl. B65d 83/06, B05b 7/00, B67d 3, 00.

#### VALVE UNITS OPERABLE TO DISPENSE LIQUID PRODUCTS AND DISPENSERS COMPRISING THE SAME.

*Applicant & Inventor* : ROBERT HENRY ABPLANALP, OF 10 HEWITT AVENUE, BRONXVILLE, WESTCHESTER COUNTY, NEW YORK, UNITED STATES OF AMERICA.

Application No. 1597 Cal/77, filed November 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 24 Claims

A valve unit operable to dispense a liquid product from a single container in which the product is stored with a pressurised gaseous propellant comprising separate individual conduits for the liquid product and the gaseous propellant communicating with an impact mixing chamber wherein unobstructed streams of the product and propellant flowing from the conduits are impacted and mixed so as to form a fine dispersion, one of the conduits including a venturi construction and a discharge orifice for the dispersion; characterised in that valve means for controlling each stream or mixed streams, and simultaneously operable by a single actuator, the mixing chamber being of cylindrical shape and having an axially directed inlet part for one of the streams and, in its cylindrical wall, at least one inlet part for the other stream directed tangentially to the axially directed inlet part, the axially directed inlet part being located at the end of the conduit which includes the venturi construction.

Comp. Specn.—28 Pages.

Drg.—10 Sheets.

CLASS 129M.

148849.

Int. Cl. : B23d 31/02.

#### ANNUAL CUTTING DIE, AND METHOD OF CIRCUMFERENTIALLY SHAVING AWAY THE SURFACE PORTION OF A ROD.

*Applicant* : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

*Inventor* : JOSEPH EDWARD BYRNES.

Application No. 1729/Cal/77, filed December 14, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

An annular cutting die for the circumferential shaving away of the surface portion of a rod passing therethrough, said annular die 10 having a head (18), an outer annular tapered surface (20) beyond said head and having an inner annular tapered surface (22) which converge to form an annular cutting blade (24), said outer annular tapered surface (20) of the blade (24) having four substantially symmetrical, radially extending facets (26, 26', 26'', 26''') formed thereon the borders 28, 28' of each of said facets (26, 26', 26'', 26''') adjoining a border of the next adjacent facet of the annular cutting blade (24) and thereby provide four cutting edges (30, 30', 30'', 30''') substantially equally spaced about the annular cutting blade (24).

Comp. Specn.—13 Pages.

Drg.—1 Sheet.

CLASS : 32F<sub>2</sub>a.

148850.

Int. Cl. : C07c 135/00.

#### IMPROVEMENTS IN OR RELATING TO A PROCESS FOR THE PREPARATION OF 4-n-ALKYL-4'-CYANO BIPHENYLIS.

*Applicant* : RAMAN RESEARCH INSTITUTE, HEBBAI, BANGALORE-560006, KARNATAKA.

*Inventors* : (1) BUKKINAKERE KAPANIPATHAIYA SADASHIVA, (2) MANIVALA RAMAKRISHNAIAH SUBRAHMANYAM.

Application No. 66/Mas/78, filed May 18, 1978.

Complete specification left June 2, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 2 Claims No drawing

In the process of preparing 4-n-alkyl-4'-cyano biphenyls as claimed in Indian Patent No. 144701, the step of reducing 4-n-acyl biphenyl to 4-n-alkyl-biphenyl, characterised in that the said reduction is carried out by catalytic hydrogenation in presence of palladium or platinum catalyst.

Prov.—5 pages.

Com.—6 pages.

CLASS : 156 A & D.

148851.

Int. Cl. : F04b 43/04.

#### A PUMP

*Applicants & Inventors* : (1) COIMBATORE SUBRAMIAN MEENAKSHI SUNDARAM & (2) KUMAR SALIG RAM, FLIPASS CORPORATION, COIMBATORE-641012, TAMIL NADU.

Application No. 125/Mas/78, filed August 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 3 Claims

A pump comprising a chamber provided with one way inlet and outlet valves; a flexible diaphragm constituting part of the wall of the chamber; an armature provided for the diaphragm, the armature being loaded by a resilient member characterised by a circuit for producing a pulsating magnetic field disposed outside the chamber, said circuit comprising a solenoid connectable to an alternating current source and an auxiliary winding disposed around the main winding of the solenoid; and an electronic oscillation for connection in between the input to the solenoid and a direct current source whereby the armature constrains the diaphragm to move inwardly and outwardly alternately with respect to the chamber, to draw any fluid in communication with the inlet valve into the chamber and expel the fluid therefrom through the outlet valve.

Com.—6 pages.

Drg.—1 sheet.

CLASS : 83B 148852.

Int. Cl. : C12h 1/18.

## A METHOD OF PRODUCING DEHYDRATED 'NIRA' OR 'TODDY'.

*Applicant & Inventor :* POONDIKULAM SEBASTIAN LUCKOSE, THE MALABAR FRUIT PRODUCTS CO., POST BOX NO. 1, BHARANANGANAM, KERALA.

Application No. 205/Mas/78, filed November 2, 1978.

Complete specification left October 25, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims No drawings

A method of producing dehydrated 'nira' or 'toddy' such as hereinbefore described, comprising admixing said 'nira' to 'toddy' with starch and/or its derivatives as dehydrating agent and drying the resultant admixture at a temperature of less than 50°C to form a dry product.

Prov.—6 pages.

Com.—6 pages.

## OPPOSITION PROCEEDINGS

## (1)

The application for Patent No. 147157 made by Tata Engineering & Locomotive Co. Ltd., in response of which an opposition was entered (i) Dr. Narayan Pisharoty and (ii) Kamaljit Singh Dugal as notified in Part-III, Section 2 of the Gazette of India, dated the 31st May, 1980 has been treated as withdrawn.

## (2)

The application for Patent No. 147497 made by Suprotec S.A. in respect of which an opposition was entered by the Director General Research Designs & Standards Organisation Ministry of Railways as notified in Part-III, Section 2 of the Gazette of India dated the 7th February 1981 has been treated as withdrawn.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

## (1)

147665 147666 147667 147668 147669 147670 147671 147672  
147673 147674 147675 147676 147677 147678 147679 147680  
147681 147682 147683 147684 147685 147686 147687.

## (2)

147688 147689 147690 147691 147692 147693 147694.

## (3)

147749 147750 147751 147752 147753 147754 147755 147756  
147757 147758 147759 147760 147761 147762 147763 147764  
147765 147766.

## (4)

147802 147803 147804 147805 147806 147807 147808 147809  
147810 147811 147812 147813 147814 147815 147816 147817  
147818 147819 147820 147821 147822 147823.

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147829 147830 147831 147833 147834 147835 147836 147837  
147838 147839 147840 147841 147842 147843 147844 147845  
147846 147847 147848 147849 147850 147851 147852 147853  
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## PATENTS SEALED

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147212 147475 147605 147670 147686 147689 147690 147691  
147705 147707 147708 147713 147727 147773 147776 147780  
147787 147792 147793 147794 147796 147799 147801 147802  
147828 147835 147854 147858 147872 147873 147877 147878  
148074 148080 148130 148133 148136 148137 148138 148141  
148142 148143 148145 148148 148149 148151 148152 148153  
148154 148155 148156 148157 148159.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.

## (PATENTS).

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

137671.—.....Yen-Sen Yang.

## RENEWAL FEES PAID

104318 104875 105543 105620 105891 105941 105954 106145  
106273 109784 109786 109809 109897 110006 110284 110945  
111206 111230 112164 112408 113945 114953 115248 115351  
115530 115788 115789 116172 116392 116432 116516 116597  
116643 117212 120405 121061 121141 121494 121654 121856  
121928 121976 121996 122047 122170 122458 123147 123752  
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127085 127105 127106 127151 127225 127277 127736 127798  
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131829 131900 131903 131915 131927 132008 132300 132309  
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135876 135974 136014 136017 136076 136252 136358 136367  
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138928 138997 139139 139230 139277 139370 139408 139484  
139498 139571 139690 139782 139859 140134 140161 140178  
140199 140388 140627 140841 140890 141033 141066 141361  
141363 141428 141458 141742 141755 141787 141790 141826

141839 141840 141893 142017 141188 142288 142357 142388  
 142591 142664 142936 142938 142961 142977 142980 143093  
 143147 143157 143165 143175 143180 143223 143267 143316  
 143334 143384 143385 143437 143444 143662 143685 143695  
 143696 143715 143730 143776 143777 143792 143793 143850  
 143895 143945 143949 143985 144011 144012 144013 144014  
 144039 144048 144078 144085 144178 144185 144210 144223  
 144277 144357 144358 144359 144360 144483 144500 144577  
 144653 144670 144694 145114 145125 145363 145369 145393  
 145551 145623 145636 145659 145694 145731 145734 145741  
 145894 146029 146134 146177 146183 146212 146236 146288  
 146302 146372 146397 146460 146462 146526 146527 146542  
 146543 146556 146571 146574 146575 146615 146634 146664  
 146669 146675 146685 146808 146873 146888 146892 146896  
 147023 147057 147171 147180 147197 147205 147209 147235  
 147236 147238 147241 147268 147269 147287 147289 147303  
 147306 147338 147339 147341 147344 147347 147354 147355  
 147356 147365 147375 147379 147382 147417 147432 147538  
 147541 147572 147578.

#### CESSATION OF PATENTS

121188 126023 126522 132218 136351 136428 136523 136662  
 137527 138008 138472 141027 141372 142147 142166 142210  
 142451 142588 143002 143032.

#### RESTORATION PROCEEDINGS

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 27th August 1981 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which the bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 115207 granted to Council of Scientific and Industrial Research for an invention relating to "a Hushing cistern".

The patent ceased on the 30th March, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th March, 1981.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 139258 granted to Council of Scientific & Industrial Research for an invention relating to "improvements in or relating to drive arrangements for foil materials through continuous processing equipment with special reference to the maintenance of constant linear speed".

The patent ceased on the 11th March, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th March, 1981.

(3)

Notice is hereby given that an application for restoration of Patent No. 114164 dated the 22nd January, 1968 made by Schloemann Aktiengesellschaft on the 27th June, 1980 notified in the Gazette of India, Part-III, Section 2 dated

the 4th October, 1980 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 131706 dated the 14th June, 1971 made by Raymond Stanley Kotzur on the 12th June, 1980 and notified in the Gazette of India, Part-III Section 2 dated the 20th September, 1980 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 136097 dated the 13th September, 1972 made by Dinesh Chandra Singhal on the 29th July, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 1st November, 1980 has been allowed and the said patent restored.

(6)

Notice is hereby given that an application for restoration of Patent No. 138543 dated the 21st June, 1973 made by Heavy Engineering Corporation Limited on the 30th May, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 1st November, 1980, has been allowed and the said patent restored.

(7)

Notice is hereby given that an application for restoration of Patent No. 140873 dated the 4th July, 1973 made by British Industrial Plastic Limited on the 28th June, 1979 and notified in the Gazette of India, Part-III, Section 2 dated the 20th October, 1979 has been allowed and the said patent restored.

(8)

Notice is hereby given that an application for restoration of Patent No. 142526 dated the 25th June, 1974 made by Mining & Allied Machinery Corp., on the 18th April, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 1st November, 1980 has been allowed and the said patent restored.

(9)

Notice is hereby given that an application for restoration of Patent No. 143153 dated the 12th September, 1975 made by Vidyut Metallics Private Limited subsequently changed to Vidyut Metallics Limited on the 18th August, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 15th November, 1980 has been allowed and the said patent restored.

(10)

Notice is hereby given that an application for restoration of Patent No. 143900 dated the 20th March, 1974 made by Simon-Croftshaw Limited formerly known as Croftshaw (Engineers) Limited on the 2nd August, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 15th November, 1980 has been allowed and the said patent restored.

(11)

Notice is hereby given that an application for restoration of Patent No. 145758 dated the 11th March, 1977 made by The Director, General, Cement Research Institute of India, on the 11th July, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 1st November, 1980 has been allowed and the said patent restored.

(12)

Notice is hereby given that an application for restoration of Patent No. 146135 dated the 25th October, 1977 made by Sunil Kumar Bharel on the 27th August, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 15th November, 1980 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 149928. Unident India, 77/5621, Regharpura, Karol Bagh, New Delhi-110005, Union Territory of India, India, a proprietorship concern. "Dentist Tool". September 17, 1980.

Class 1. No. 149931. Kishco Cutlery Limited of 'Nirmal', 3rd floor, 241, Backbay Reclamation, Nariman Point, Bombay-400021, State of Maharashtra, India. "Spoon". September 17, 1980.

Class 1. No. 149932. Kishco Cutlery Limited of 'Nirmal', 3rd floor, 241, Backbay Reclamation, Nariman Point, Bombay-400021, State of Maharashtra, India. "Fork". September 17, 1980.

Class 1. No. 149945. United Engg. Corporation, Chand Market, Hauz Kazi, Delhi-110006, an Indian Proprietary Concern. "Tap Wrench". September 19, 1980.

Class 1. No. 150086. Abinash Chandra Das, 15577B Acharya Prafulla Chandra Road, Calcutta-700006, West Bengal, India. Indian National. "Incandescent Lamp". October 21, 1980.

Class 1. No. 150108. Metal Box Limited of Queens House, Forbury Road, Reading RG1 3JH, Berkshire, England, a British Company, "Closure". November 7, 1980.

Class 3. No. 149923. Berger Traffic Markings Limited a British Company of Fosseway, Midsomer Norton, Bath BA3 4AY, England. "Reflective Pavement Marker". September 16, 1980

Class 3. No. 150024. Dikay Industries of 32, Sidhpura Co-operative Industrial Estate, Swami Vivekanand Road, Goregaon (West), Bombay-400062, Maharashtra, an Indian sole proprietary concern. "Jerry Cane". October 7, 1980.

Class 3. No. 150092. Escorts Limited of H-2, Connaught Circus, New Delhi. "The Reflex Reflector". October 28, 1980

Class 3. No. 150104. Ram Prakash Sarhdev, an Indian National, trading as Labella Laboratories of 118 Sarang Street, 2nd floor, Bombay-400003, Maharashtra. "Bottle". October 31, 1980.

S. VEDARAMAN  
Controller General of Patents, Designs  
and Trade Marks.

